Table 7: Cholecystectomy & cholecystotomy (Gallbladder) Surgical Site Infection (SSI) Standardized Infection Ratio (SIR) Tables
January 1, 2008 – November 30, 2008

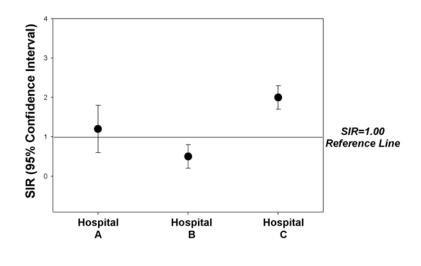
See <u>Definition of Terms</u> at the <u>Healthcare Acquired Infections Report</u> website for a more indepth explanation of Standardized Infection Ratios.

Standardized Infection Ratio: The Standardized Infection Ratio (SIR) is a summary measure used to compare the surgical site infection (SSI) experience among a group of reported procedures to that of a standard population. It is the *observed* number of infections divided by the *expected* number of infections.

For HAI reports, the standard population comes from NHSN data reported from all hospitals using the system. "Expected" *is based on historical data for those procedures at the national level.

Confidence Intervals (CIs)

Because we can never obtain a hospital's true "population" data (e.g. all patients for all time), we use statistical procedures to "estimate" various measurements using "sample" data. Since estimates have "variability" we use 95% confidence limits (or intervals) to describe the variability around the estimate. The confidence interval (CI) gives us the range within which the TRUE value will fall 95% of the time, assuming that the sample data are reflective of the true population. Below is a graphical example of what CIs would look like if they were in graph form.



Graph Interpretation:

Hospital A: If the 95% confidence interval <u>crosses over the reference line of 1.0</u>, we conclude that the hospital's infection rate is similar (not significantly different) from "expected" (predicted).

Hospital B: If the 95% confidence interval <u>falls completely below the reference line of 1.0</u>, we conclude that the hospital's infection rate is significantly lower than "expected" (predicted).

Hospital C: If the 95% confidence interval <u>falls completely above the reference line of 1.0</u>, we conclude that the hospital's infection rate is significantly higher than "expected" (predicted).

All conclusions are based on the assumption that the hospital's patient population is similar to the NHSN pooled patient population.

*Please note that the "expected" number of infections does not mean that you expect to get an infection when you go into the hospital for surgery. The goal is for the hospital is to prevent all HAIs.

Surgical Site Infection (SSI) - Standardized Infection Ratio (SIR) Table 7

Procedure: Cholecystectomy (Gallbladder)

Upstate (Abbeville, Anderson, Cherokee, Edgefield, Greenville, Greenwood, McCormick, Oconee, Pickens, Saluda, Spartanburg, Union)

Reporting Period: January 1, 2008 – November 30, 2008

Hospital	Observed No. Of	No. Of Procedures*	Statistically "Expected"	Compariso (Observed	oulation SIR = 1		
	SSI		No. of SSI [‡]	Hospital SIR = Observed "Expected"	95% Confidence Interval (CI)		Statistical Interpretation [†]
					Lower	Upper	
Abbeville							
Area							
Medical							
Center	0	20	0.1	0.00	0.00 -	26.73	Not Different
AnMed							
Health							
Medical							
Center	0	473	3.3	0.00	0.00 -	1.13	Not Different
AnMed							
Health							
Womens							
And	0	47	0.2	0.00	0.00	11 20	N-4 D:66
Children	0	47	0.3	0.00	0.00 -	11.38	Not Different
Cannon Memorial							
Hospital	0	20	0.1	0.00	0.00 -	26.73	Not Different
Greenville	0	20	0.1	0.00	0.00 -	20.13	Not Different
Memorial							
Hospital	3	288	2.0	1.51	0.31 -	4.41	Not Different
Greer		250	2.0	1.01	5.51	1,11	1.00 Different
Memorial							
Hospital	0	43	0.3	0.00	0.00 -	12.43	Not Different
Hillcrest							
Memorial							
Hospital	0	27	0.2	0.00	0.00 -	19.80	Not Different

Hospital	Observed No. Of	No. Of Procedures*	Statistically "Expected"	Comparison to Standard Population SIR = 1 (Observed = "Expected")				
	SSI		No. of SSI [‡]	Hospital SIR = Observed "Expected"	95% Confider Interval	(CI)	Statistical Interpretation [†]	
-				Expected	Lower	Upper		
Laurens								
County Healthcare								
	1	42	0.2	2 27	0.00	10.70	Not Different	
System	1	43	0.3	3.37	0.08 -	18.78	Not Different	
Mary								
Black								
Memorial	0	122	0.0	0.00	0.00	1 20	Not Different	
Hospital	0	122	0.8	0.00	0.00 -	4.38	Not Different	
Oconee Memorial								
Hospital	1	95	0.7	1.53	0.04 -	8.50	Not Different	
Palmetto	1	93	0.7	1.33	0.04 -	8.30	Not Different	
Baptist Medical								
Center -								
Easley	0	243	1.7	0.00	0.00 -	2.20	Not Different	
Patewood	U	243	1./	0.00	0.00 -	2.20	Not Different	
Memorial								
Hospital	*	4	*	*	* _	*	*	
Self		+						
Regional								
Healthcare	2	312	2.2	0.93	0.11 -	3.36	Not Different	
Spartanbu	2	312	2.2	0.73	0.11	3.30	Not Different	
rg								
Regional								
Medical								
Center	5	319	2.2	2.27	0.74 -	5.30	Not Different	
St. Francis		317	2.2	2.27	0.7.1	2.20	Tiot Billerent	
Downtown	0	210	1.4	0.00	0.00 -	2.55	Not Different	
St. Francis	9		2	2.20				
Eastside	0	21	0.1	0.00	0.00 -	25.46	Not Different	
Upstate			5.1	2.03				
Carolina								
Medical								
Center	0	37	0.3	0.00	0.00 -	14.45	Not Different	
Wallace								
Thomson								
Hospital	1	23	0.2	6.30	0.16 -	35.11	Not Different	

- † SC Hospital SIR Statistical Interpretation
 - o Similar = Statistically not different than the standard population
 - Lower = Statistically lower than the standard population
 - Higher = Statistically higher than the standard population
- ‡ Please note that the "expected" number of infections does not mean that you expect to get an infection when you go into the hospital for surgery. The goal is for the hospital is to prevent all HAIs.
- * Too few procedures. Reporting on too few procedures is a risk to patient confidentiality. If five or fewer surgical procedures are performed, the report for the number of infections will be deferred until more procedures are performed.

Surgical Site Infection (SSI) - Standardized Infection Ratio (SIR) Table 7

Procedure: Cholecystectomy (Gallbladder)

Midlands (Aiken, Allendale, Bamberg, Barnwell, Calhoun, Chester, Chesterfield, Darlington, Dillon, Fairfield, Florence, Kershaw, Lancaster, Lee, Lexington, Marion, Marlboro, Newberry, Orangeburg, Richland, Sumter, York)

Reporting Period: January 1, 2008 - November 30, 2008

Hospital	Observed No. Of	No. Of Procedures*	Statistically "Expected"	Comparison to Standard Population SIR = 1 (Observed = "Expected")					
	SSI		No. of SSI [‡]	Hospital SIR = Observed "Expected"	95% Confidence Interval (CI)		Statistical Interpretation [†]		
					Lower	Upper			
Aiken									
Regional									
Medical Center	1	192	1.3	0.75	0.02 -	4.21	Not Different		
Barnwell	1	192	1.3	0.73	0.02 -	4.21	Not Different		
County									
Hospital	0	11	0.1	0.00	0.00 -	48.60	Not Different		
Carolina									
Pines									
Regional Medical									
Center	0	100	0.7	0.00	0.00 -	5.35	Not Different		
Carolinas		100	0.7	0.00	0.00	3.33	1 VOI DITICICIII		
Hospital									
System	1	222	1.5	0.65	0.02 -	3.64	Not Different		
Chester									
Regional									
Medical Center	0	20	0.1	0.00	0.00 -	26.73	Not Different		
Chesterfiel	0	20	0.1	0.00	0.00 -	20.73	Not Different		
d General									
Hospital	0	77	0.5	0.00	0.00 -	6.94	Not Different		

Hospital	Observed No. Of	No. Of Procedures*	Statistically "Expected"	Comparison to Standard Population SIR = 1 (Observed = "Expected")				
	SSI		No. of SSI [‡]	Hospital SIR = Observed "Expected"	95% Confide Interval Lower	nce	Statistical Interpretation [†]	
Clarendon				•	Lower	Оррег		
Memorial								
Hospital	0	52	0.4	0.00	0.00 -	10.28	Not Different	
Kershaw								
County								
Medical								
Center	0	114	0.8	0.00	0.00 -	4.69	Not Different	
Lake City								
Communit								
y Hospital	0	18	0.1	0.00	0.00 -	29.70	Not Different	
Lexington								
Medical			_	_				
Center	7	381	2.6	2.66	1.07 -	5.49	Higher	
Marion								
County								
Medical	0	65	0.4	0.00	0.00	0.22	Not Different	
Center Marlboro	0	65	0.4	0.00	0.00 -	8.23	Not Different	
Park								
Hospital	0	19	0.1	0.00	0.00 -	28.14	Not Different	
McLeod	0	17	0.1	0.00	0.00	20.17	110t Different	
Medical								
Center -								
Darlington	*	1	*	*	* _	*	*	
McLeod								
Medical								
Center -								
Dillon	1	58	0.4	2.50	0.06 -	13.92	Not Different	
McLeod								
Medical								
Center -								
Pee Dee	0	287	2.0	0.00	0.00 -	1.86	Not Different	
Newberry								
County								
Memorial	0	22	0.2	0.00	0.00	22.25	Not Different	
Hospital	0	23	0.2	0.00	0.00 -	23.25	Not Different	
Palmetto Health								
Baptist	2	172	1.2	1.69	0.20 -	6.09	Not Different	
Баризі	<u> </u>	1/2	1.2	1.09	0.20 -	0.03	Not Different	

Hospital	Observed No. Of	No. Of Procedures*	Statistically "Expected"	Comparison to Standard Population SIR = 1 (Observed = "Expected")				
	SSI		No. of SSI [‡]	Hospital SIR = Observed	95% Confidence Interval		Statistical Interpretation [†]	
				"Expected"	Lower	Upper		
Palmetto								
Health								
Richland	1	178	1.2	0.81	0.02 -	4.54	Not Different	
Piedmont								
Medical								
Center	0	178	1.2	0.00	0.00 -	3.00	Not Different	
Providence								
Hospital								
Downtown	2	100	0.7	2.90	0.35 -	10.47	Not Different	
Providence								
Hospital								
Northeast	0	41	0.3	0.00	0.00 -	13.04	Not Different	
Regional								
Medical								
Center Of								
Orangebur								
g/Calhoun								
Counties	0	137	0.9	0.00	0.00 -	3.90	Not Different	
Springs								
Memorial								
Hospital	2	106	0.7	2.73	0.33 -	9.88	Not Different	
Tuomey	0	131	0.9	0.00	0.00 -	4.08	Not Different	

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- * Too few procedures. Reporting on too few procedures is a risk to patient confidentiality. If five or fewer surgical procedures are performed, the report for the number of infections will be deferred until more procedures are performed.

Surgical Site Infection (SSI) Standardized Infection Ratio (SIR) Table 7

Procedure: Cholecystectomy (Gallbladder)

Coastal (Beaufort, Berkeley, Charleston, Colleton, Dorchester, Georgetown, Hampton, Horry, Jasper, Williamsburg)

Reporting Period: January 1, 2008 – November 30, 2008

Hospital	Observed No. Of	No. Of Procedures*	Statistically "Expected"	Comparison to Standard Population SIR = 1 (Observed = "Expected")					
	SSI		No. of SSI [‡]	Hospital SIR = Observed "Expected"	95% Confidence Interval (CI)		Statistical Interpretation [†]		
					Lower	Upper			
Beaufort									
Memorial	0	163	1.1	0.00	0.00 -	3.28	Not Different		
Hospital Bon	U	103	1.1	0.00	0.00 -	3.20	Not Different		
Secours -									
St. Francis									
Xavier									
Hospital	1	255	1.8	0.57	0.01 -	3.17	Not Different		
Coastal									
Carolina Medical									
Center	0	17	0.1	0.00	0.00 -	31.45	Not Different		
Colleton	0	17	0.1	0.00	0.00	31.43	110t Billetent		
Medical									
Center	0	74	0.5	0.00	0.00 -	7.22	Not Different		
Conway									
Medical		1.50	1.0	0.07	0.00	7.2 0	N . D. CC		
Center	1	150	1.0	0.97	0.02 -	5.38	Not Different		
East Cooper									
Regional									
Medical									
Center	1	82	0.6	1.77	0.04 -	9.85	Not Different		

Hospital	Observed No. Of	No. Of Procedures*	Statistically "Expected"	· •				
E	SSI		No. of SSI [‡]	Hospital SIR = Observed "Expected"	95% Confide Interval	(CI)	Statistical Interpretation [†]	
				Expected	Lower	Upper		
Georgetow								
n								
Memorial				0.00	0.00	10.10		
Hospital	0	43	0.3	0.00	0.00 -	12.43	Not Different	
Grand								
Strand								
Regional								
Medical	-	200	•	2.50	0.01	5 00	NI - D'00	
Center	5	290	2.0	2.50	0.81 -	5.83	Not Different	
Hampton								
Regional								
Medical	ata.		ate	ata	ata.	ate	ata.	
Center	*	4	*	*	* -	*	*	
Hilton								
Head								
Regional								
Medical	0	4.5	0.2	0.00	0.00	11.00	M Dicc	
Center	0	45	0.3	0.00	0.00 -	11.88	Not Different	
Loris								
Healthcare	0	140	1.0	0.00	0.00	2.02	M (D'CC	
System	0	140	1.0	0.00	0.00 -	3.82	Not Different	
MUSC								
Medical	2	226	1.6	1.02	0.40	5.60	N-4 D:66	
Center	3	226	1.6	1.92	0.40 -	5.62	Not Different	
Roper								
Hospital	4	250	2.5	1.61	0.44	4.12	Not Different	
Inc.	4	359	2.5	1.61	0.44 -	4.13	Not Different	
Summervil								
le Medical	0	120	1.0	0.00	0.00	2.05	Not Different	
Center	0	139	1.0	0.00	0.00 -	3.85	Not Different	
Trident Madiaal								
Medical	1	106	1 /	0.74	0.02	4.10	N-4 D:66	
Center	1	196	1.4	0.74	0.02 -	4.12	Not Different	
Waccama								
W Communit								
Communit	1	60	0.5	2.12	0.05	11 00	Not Different	
y Hospital	1	68	0.5	2.13	0.05 -	11.88	Not Different	

Hospital	Observed No. Of	No. Of Procedures*	Statistically "Expected"	Comparison to Standard Population SIR = 1 (Observed = "Expected")				
	SSI		No. of SSI [‡]	Hospital	95% Statistical			
				SIR =	Confide	nce	Interpretation [†]	
				<u>Observed</u>	Interval (CI)			
				"Expected"	Lower	Upper		
Williamsb								
urg								
Regional								
Hospital	*	1	0.0	*	* _	*	*	

- † SC Hospital SIR Statistical Interpretation
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 - Higher = Statistically higher than the standard population
- [‡] Please note that the "expected" number of infections does not mean that you expect to get an infection when you go into the hospital for surgery. The goal is for the hospital is to prevent all HAIs.
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